

IN THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. *(Previously Presented)* A rotor for a permanent magnet motor of an outer rotor type, the rotor having a plurality of permanent magnets and disposed around a stator, the rotor comprising:

a frame;

an annular iron core combined integrally with the frame; and

a plurality of insertion holes formed in the core so that the permanent magnets are inserted in the insertion holes respectively,

wherein the frame, the core and the permanent magnets are combined integrally with one another by a synthetic resin, and each insertion hole includes a magnet disposing portion in which the permanent magnet is disposed, a space portion located in at least one of circumferential both ends of each permanent magnet disposed in the magnet disposing portion, and a positioning portion positioning each permanent magnet in the magnet disposing portion, and the molten synthetic resin is poured into the space portion.

2. *(Previously Presented)* A rotor for a permanent magnet motor of an outer rotor type, the rotor having a plurality of permanent magnets and disposed around a stator, the rotor comprising:

a frame;

an annular iron core combined integrally with the frame; and

a plurality of insertion holes formed in the core so that the permanent magnets are inserted in the insertion holes respectively,

wherein the frame, the core and the permanent magnets are combined integrally with each other by a synthetic resin, and each insertion hole includes a magnet disposing portion in which the permanent magnet is disposed and a recess defining a space along an outer periphery of each permanent magnet disposed in the magnet disposing portion, and the molten synthetic resin is poured into the recess.

3. ~~(Canceled)~~ ~~A rotor for a permanent magnet motor of an outer rotor type, the rotor having a plurality of permanent magnets and disposed around a stator, the rotor comprising:~~
~~—— a frame;~~
~~—— an annular iron core combined integrally with the frame; and~~
~~—— a plurality of insertion holes formed in the core so that the permanent magnets are inserted in the insertion holes respectively;~~
~~—— wherein the frame, the core and the permanent magnets are combined integrally with each other by a synthetic resin, and the core has a through hole from which a molten synthetic resin is poured.~~

4. (Currently Amended) A rotor for a permanent magnet motor of an outer rotor type, the rotor having a plurality of permanent magnets and disposed around a stator, the rotor comprising:

—— a frame;
—— an annular iron core combined integrally with the frame; and
—— a plurality of insertion holes formed in the core so that the permanent magnets are inserted in the insertion holes respectively,
—— wherein the frame, the core and the permanent magnets are combined integrally with each other by a synthetic resin;
—— the core has a through hole from which a molten synthetic resin is poured; and

The rotor according to claim 3, wherein a distance from the through hole to the outer circumference of the core is shorter than a distance from an axial center in a portion of the core where the core has a maximum axial dimension, to the outer circumference of the core.

5. (Currently Amended) A rotor for a permanent magnet motor of an outer rotor type, the rotor having a plurality of permanent magnets and disposed around a stator, the rotor comprising:

—— a frame;
—— an annular iron core combined integrally with the frame; and
—— a plurality of insertion holes formed in the core so that the permanent magnets are inserted in the insertion holes respectively,
—— wherein the frame, the core and the permanent magnets are combined integrally with each other by a synthetic resin;

the core has a through hole from which a molten synthetic resin is poured; and
~~The rotor according to claim 3, wherein~~ the through hole is formed nearer to the outer circumference of the core than the permanent magnets in the core.

6. (*Currently Amended*) A rotor for permanent magnet motor of an outer rotor type, the rotor having a plurality of permanent magnets and disposed around a stator, the rotor comprising:

a frame;
an annular iron core combined integrally with the frame; and
a plurality of insertion holes formed in the core so that the permanent magnets are inserted in the insertion holes respectively,

wherein the frame, the core and the permanent magnets are combined integrally with each other by a synthetic resin;

the core has a through hole from which a molten synthetic resin is poured; and
~~The rotor according to claim 3, wherein~~ the through hole is formed in the core so as to be located between the magnetic poles.

7. (*Previously Presented*) A rotor for a permanent magnet motor of an outer rotor type, the rotor having a plurality of permanent magnets and disposed around a stator, the rotor comprising:

a frame;
an annular iron core combined integrally with the frame;
a plurality of insertion holes formed in the core so that the permanent magnets are inserted in the insertion holes respectively, and

a plurality of trough portions formed in the core so as to be located between the respective insertion holes adjacent to each other in the inner circumferential portion thereof, the trough portions being filled with a synthetic resin.

8. (*Previously Presented*) The rotor according to claim 7, wherein a distance between an outer circumferential end of each trough portion and an outer circumferential portion of the core is smaller than a distance between a radial center of the core and the outer circumferential end of the core.

9. - 19. (*Cancelled*).